

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-4 (cancelled).

Claim 5 (new) Device (1) for calibrating a system for double energy conical beam radiography, comprising an assembly of blocks of different thicknesses of a first material, characterized in that the blocks are provided with recesses and in that the device further comprises inserts (7) of a second material to fill the recesses and comprising different height distributions (12, 13), the heights of the inserts and the thicknesses of the blocks being considered in an identical direction, the first material and the second material simulating respective first and second material of an object to be examined by the system, the inserts having proportions and distributions in the blocks which are analogous to proportions and distributions of the second material of the object in the first material of the object.

Claim 6 (new) Calibration device according to claim 5, characterized in that the blocks are assembled in stepped form and the inserts are divided into rows (8 to 11) in a lower layer (2) of the steps, the rows being located under different blocks.

Claim 7 (new) Calibration device according to claim 6, characterized in the steps have tapered faces (6).

Claim 8 (new) Method for radiography of an object with a double energy conical beam, comprising an estimation of thicknesses of materials of the object by a digital combination of measurements of energy attenuation, involving calibration of coefficients of the combination, wherein the calibration is made with an assembly of blocks of different thicknesses of a first material, the blocks being provided with recesses and further comprising inserts (7) of a second material to fill the recesses, the inserts comprising different heights (12, 13), the heights of the inserts and the thicknesses of the blocks being considered in an identical direction, the first material and the second material simulating respective first and second materials of the object, the inserts having proportions and distributions in the blocks which are analogous to proportions and distributions of the second material of the object in the first material of the object, the device being designed so that the inserts are sufficiently separated to not receive scattered radiation coming from neighboring inserts, wherein a total radiation and a scattered radiation through the device are measured successively, a relationship between the total radiation and the scattered radiation is established, and the energy attenuation measured through the object is further estimated with said relationship for correcting the scattered radiation through the object, before the combination of the measurement is made.